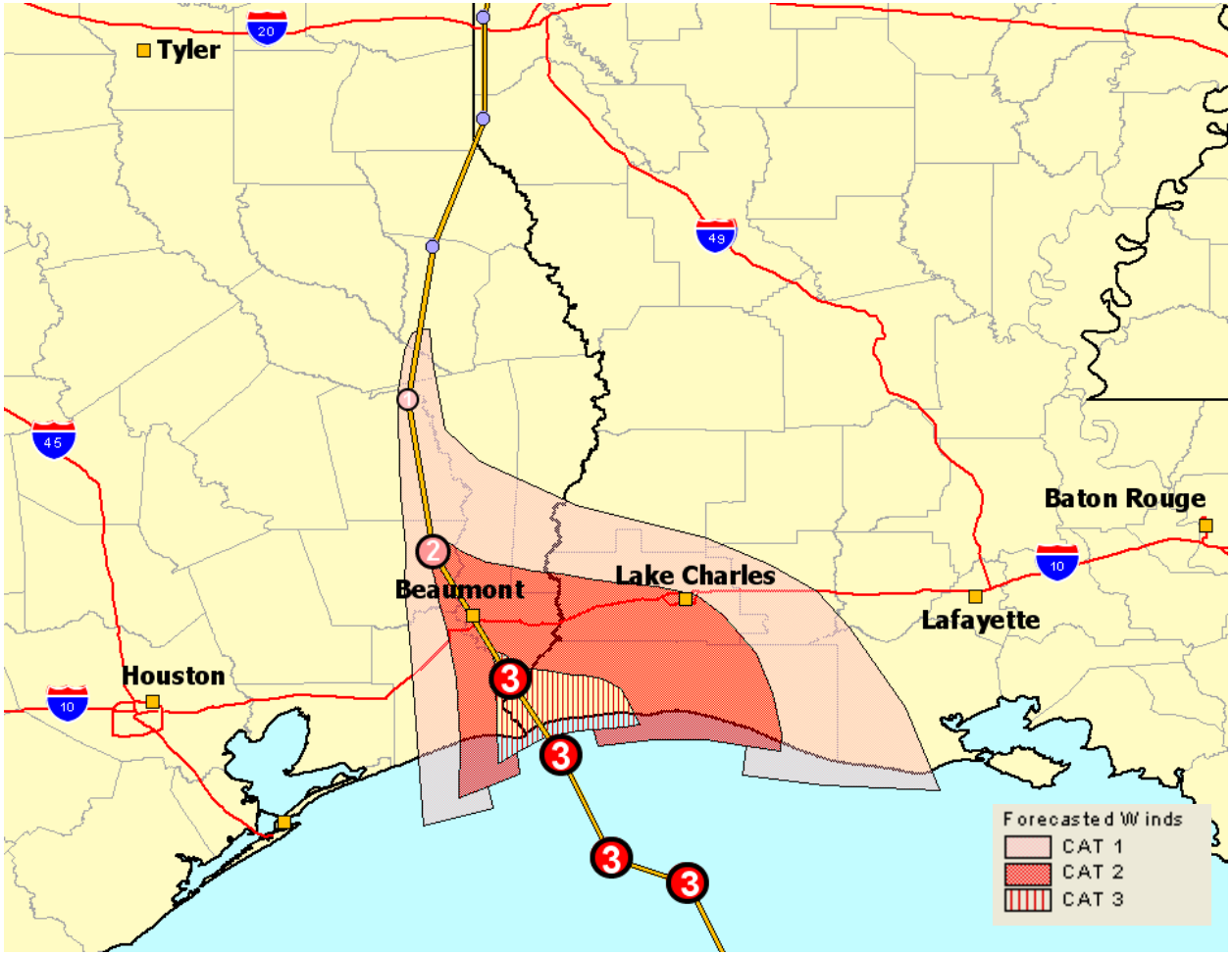
# Hurricane Rita Wind Distribution

## Landfall Plus About 24 Hours

**For Official Use Only!**




***Most Probable Wind Distribution***

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Wind Fields**

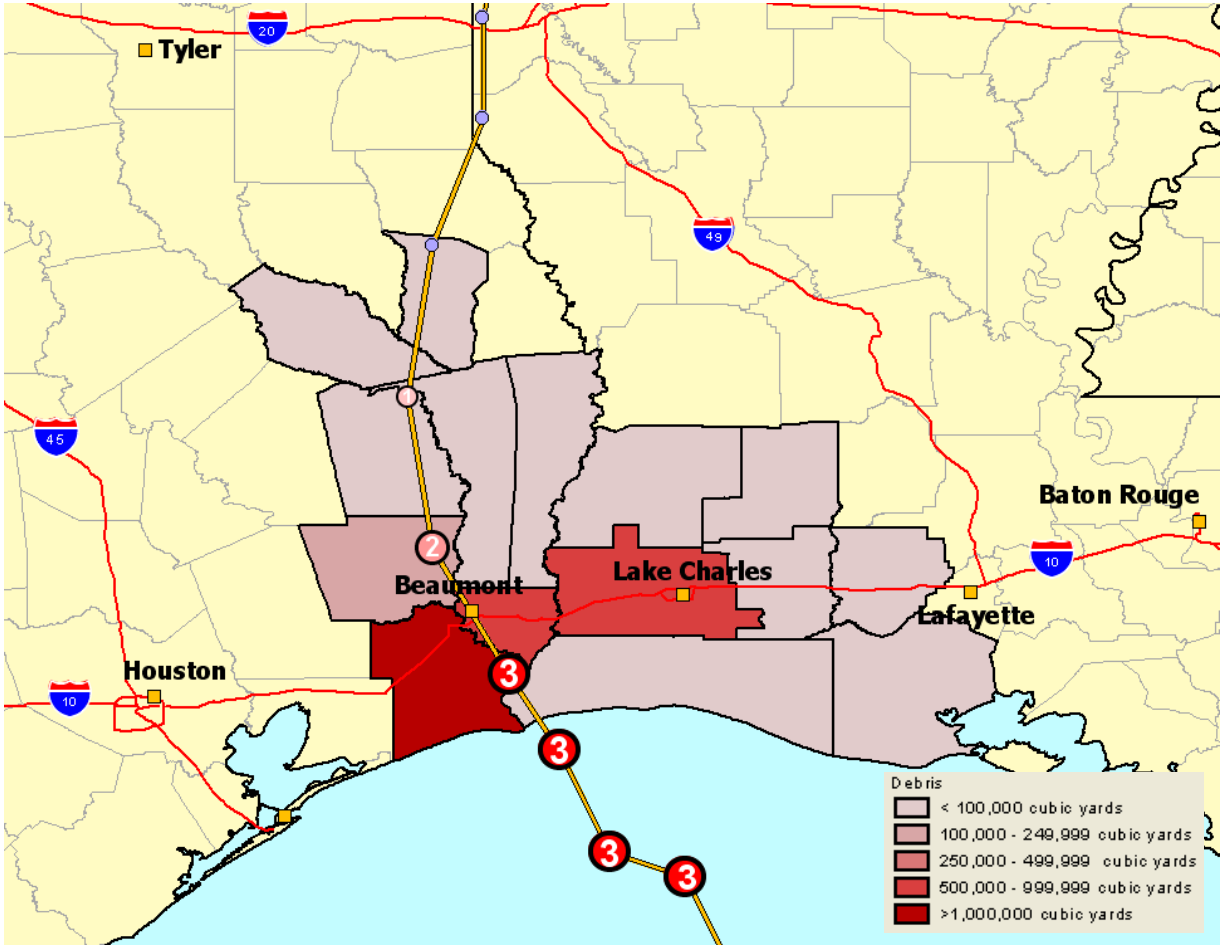
**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Debris Model

## Landfall Plus About **24** Hours

**For Official Use Only!**




***Most Probable Debris Model Results***

Texas – 3,263,000 $yd^3$
Louisiana – 1,094,000 $yd^3$

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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US Army Corps of Engineers

**Hurricane Rita Debris Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Debris Model

## Landfall Plus About **24** Hours

**For Official Use Only!**

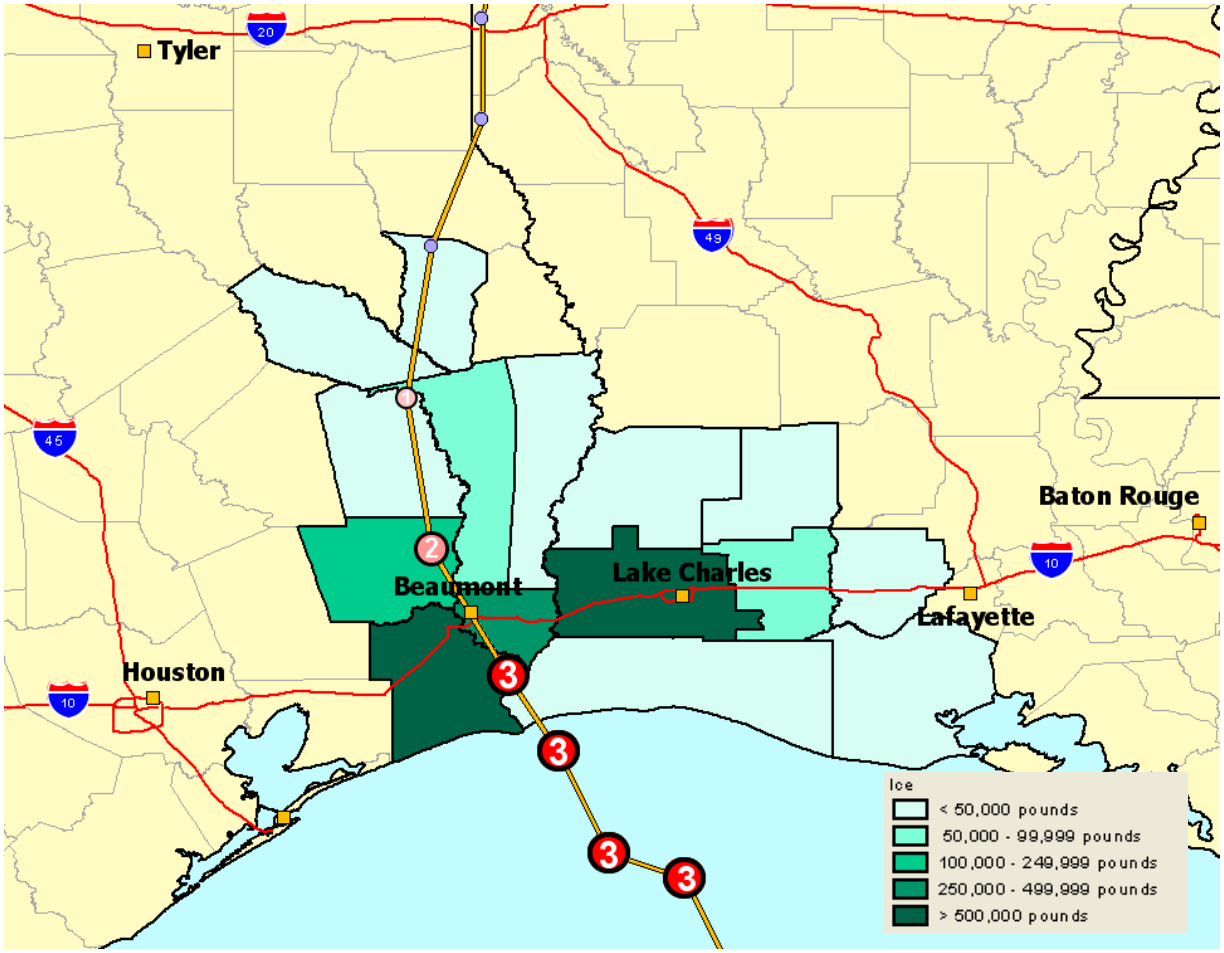
| State | County/Parish | Yards per County/Parish |
|---|---|---|
| | | |
| Louisiana | | |
| | Acadia | 1,000 |
| | Allen | 1,000 |
| | Beauregard | 6,000 |
| | Calcasieu | 964,000 |
| | Cameron | 85,000 |
| | Jeff'n Davis | 30,000 |
| | Vermilion | 7,000 |
| Louisiana | | 1,094,000 |
| | | |
| Texas | | |
| | Angelina | 1,000 |
| | Cameron | 1,000 |
| | Hardin | 115,000 |
| | Jasper | 43,000 |
| | Jefferson | 2,535,000 |
| | Newton | 18,000 |
| | Orange | 537,000 |
| | San Augustine | 1,000 |
| | Tyler | 12,000 |
| Texas | | 3,263,000 |
| | | |
| TOTAL | | 4,357,000 |

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

# Hurricane Rita Ice Model

## Landfall Plus About **24** Hours




**For Official Use Only!**

***Most Probable Ice Model Results***

Texas –
9 Truckloads Day One
18 Truckloads Day Two
36 Truckloads Day Three

Louisiana –
6 Truckloads Day One
11 Truckloads Day Two
22 Truckloads Day Three

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Ice Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Ice Model

## Landfall Plus About **24** Hours

**For Official Use Only!**

| State | County/Parish | Pounds Per County/Parish - Day 3 | Truckloads Per County/Parish - Day 3 |
|---|---|---|---|
| | | | |
| Louisiana | Acadia | 1,000 | 1 |
| | Allen | 1,000 | 1 |
| | Beauregard | 13,000 | 1 |
| | Calcasieu | 587,000 | 15 |
| | Cameron | 32,000 | 1 |
| | Jeff'n Davis | 56,000 | 2 |
| | Vermilion | 11,000 | 1 |
| Louisiana | | 701,000 | 22 |
| | | | |
| Texas | Angelina | 3,000 | 1 |
| | Hardin | 111,000 | 3 |
| | Jasper | 58,000 | 2 |
| | Jefferson | 787,000 | 20 |
| | Newton | 19,000 | 1 |
| | Orange | 272,000 | 7 |
| | San Augustine | 1,000 | 1 |
| | Tyler | 24,000 | 1 |
| Texas | | 1,275,000 | 36 |
| | | | |
| TOTAL | | 1,976,000 | 58 |

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for ice.

Details about this model may be obtained at

**https://englink.usace.army.mil**

or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

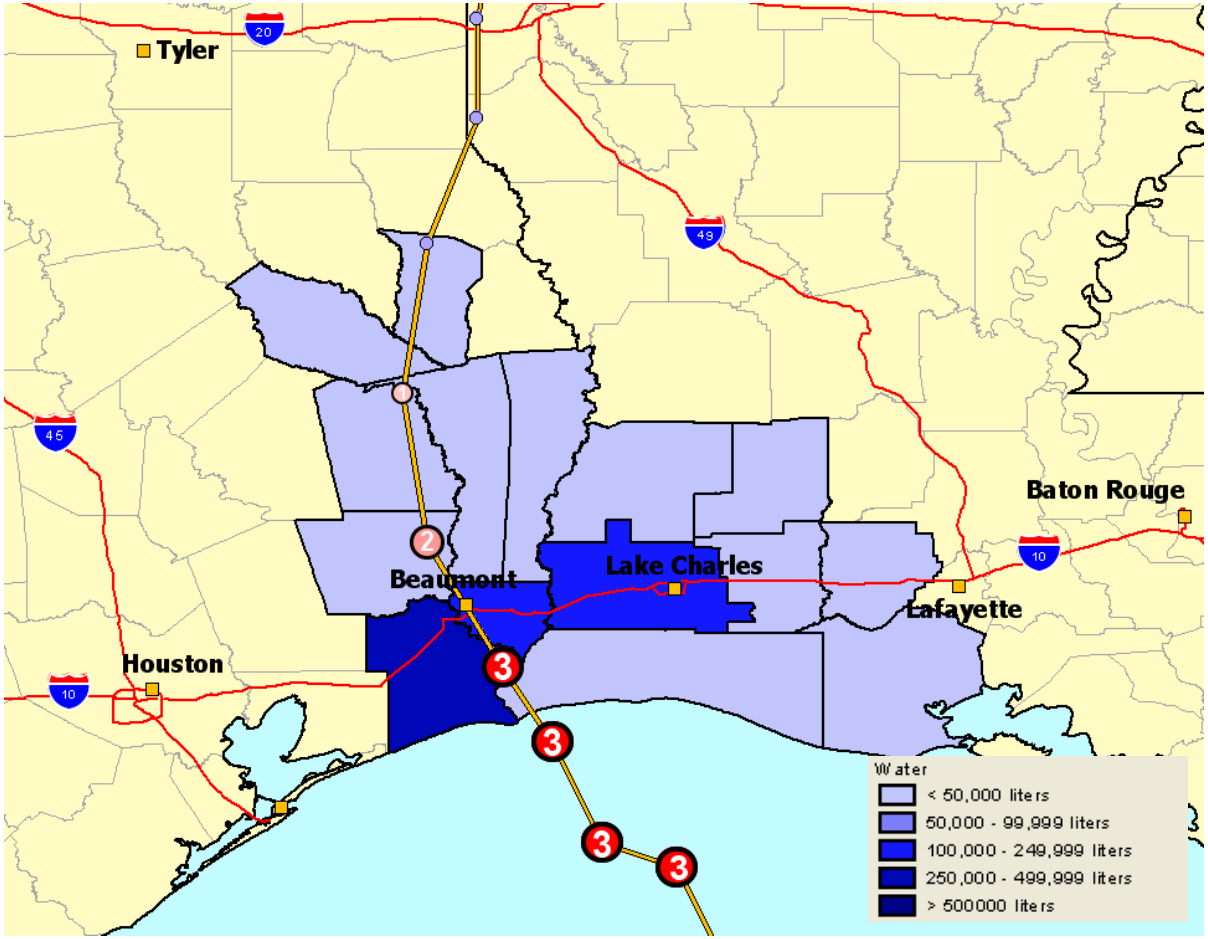
**Hurricane Rita Ice Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Water Model

## Landfall Plus About **24** Hours




**For Official Use Only!**

***Most Probable Water Model Results***

Texas –
9 Truckloads Day One
18 Truckloads Day Two
36 Truckloads Day Three

Louisiana –
6 Truckloads Day One
11 Truckloads Day Two
22 Truckloads Day Three

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Water Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Water Model

## Landfall Plus About **24** Hours

**For Official Use Only!**

| State | County/Parish | Liters Per County/Parish - Day 3 | Truckloads Per County/Parish - Day 3 |
|---|---|---|---|
| | | | |
| Louisiana | Acadia | 1,000 | 1 |
| | Allen | 1,000 | 1 |
| | Beauregard | 5,000 | 1 |
| | Calcasieu | 220,000 | 15 |
| | Cameron | 12,000 | 1 |
| | Jeff'n Davis | 21,000 | 2 |
| | Vermilion | 4,000 | 1 |
| Louisiana | | | 22 |
| | | | |
| Texas | Angelina | 1,000 | 1 |
| | Hardin | 41,000 | 3 |
| | Jasper | 22,000 | 2 |
| | Jefferson | 295,000 | 20 |
| | Newton | 7,000 | 1 |
| | Orange | 102,000 | 7 |
| | San Augustine | 1,000 | 1 |
| | Tyler | 9,000 | 1 |
| Texas | | | 36 |
| | | | |
| TOTAL | | 742,000 | 58 |

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Water Model**

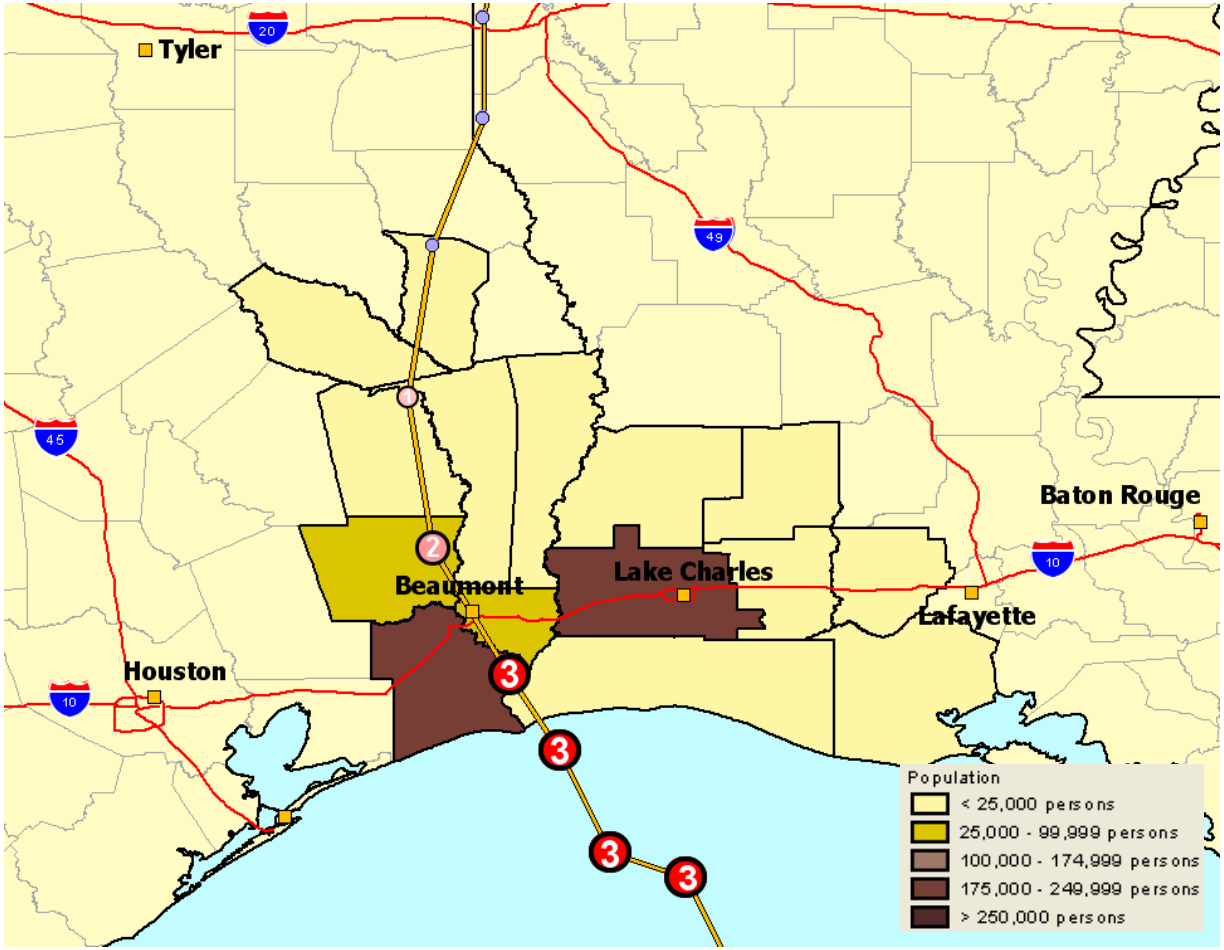
**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Population Model

## Landfall Plus About **24** Hours

**For Official Use Only!**




***Most Probable Population Model Results***

Texas – 394,000 persons
Louisiana – 218,000 persons

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Population Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Population Model

## Landfall Plus About 24 Hours

**For Official Use Only!**

| State | County/Parish | Population per County/Parish |
|---|---|---|
| | | |
| Louisiana | | |
| | Acadia | 1,000 |
| | Allen | 1,000 |
| | Beauregard | 4,000 |
| | Calcasieu | 180,000 |
| | Cameron | 10,000 |
| | Jeff'n Davis | 18,000 |
| | Vermilion | 4,000 |
| Louisiana | | 218,000 |
| | | |
| Texas | | |
| | Angelina | 1,000 |
| | Cameron | 1,000 |
| | Hardin | 35,000 |
| | Jasper | 18,000 |
| | Jefferson | 240,000 |
| | Newton | 6,000 |
| | Orange | 85,000 |
| | San Augustine | 1,000 |
| | Tyler | 7,000 |
| Texas | | 394,000 |
| | | |
| TOTAL | | 612,000 |

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers **Hurricane Rita Population Model**

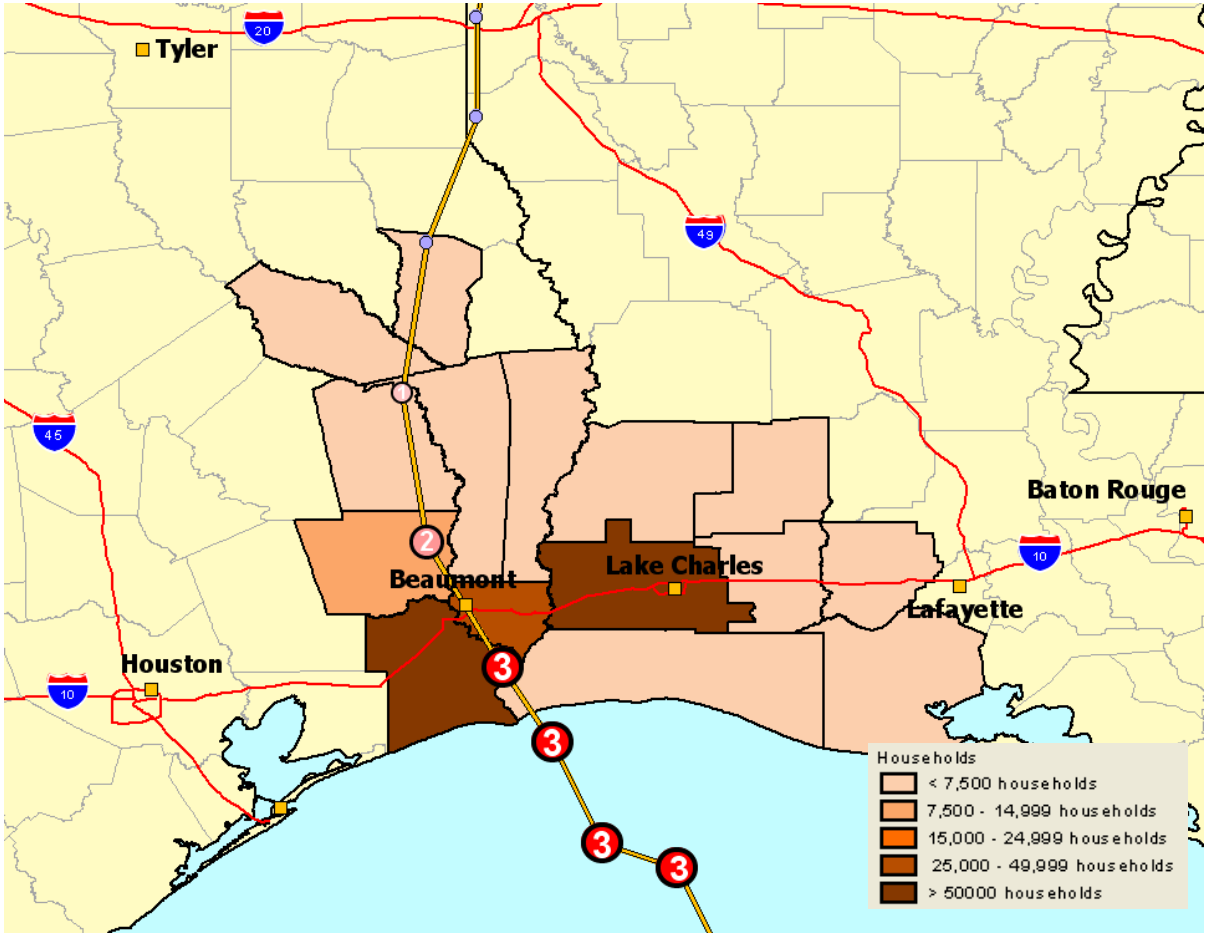
**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Households Model

## Landfall Plus About **24** Hours

**For Official Use Only!**




***Most Probable Households Model Results***

Texas – 151,000 households
Louisiana - 81,000 households

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Households Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Households Model

## Landfall Plus About **24** Hours

**For Official Use Only!**

| State | County/Parish | Households Per County/Parish |
|---|---|---|
| | | |
| Louisiana | Acadia | 1,000 |
| | Allen | 1,000 |
| | Beauregard | 1,000 |
| | Calcasieu | 67,000 |
| | Cameron | 4,000 |
| | Jeff'n Davis | 6,000 |
| | Vermilion | 1,000 |
| Louisiana | | 81,000 |
| | | |
| Texas | Angelina | 1,000 |
| | Cameron | 1,000 |
| | Hardin | 13,000 |
| | Jasper | 7,000 |
| | Jefferson | 91,000 |
| | Newton | 2,000 |
| | Orange | 32,000 |
| | San Augustine | 1,000 |
| | Tyler | 3,000 |
| Texas | | 151,000 |
| | | |
| TOTAL | | 232,000 |

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

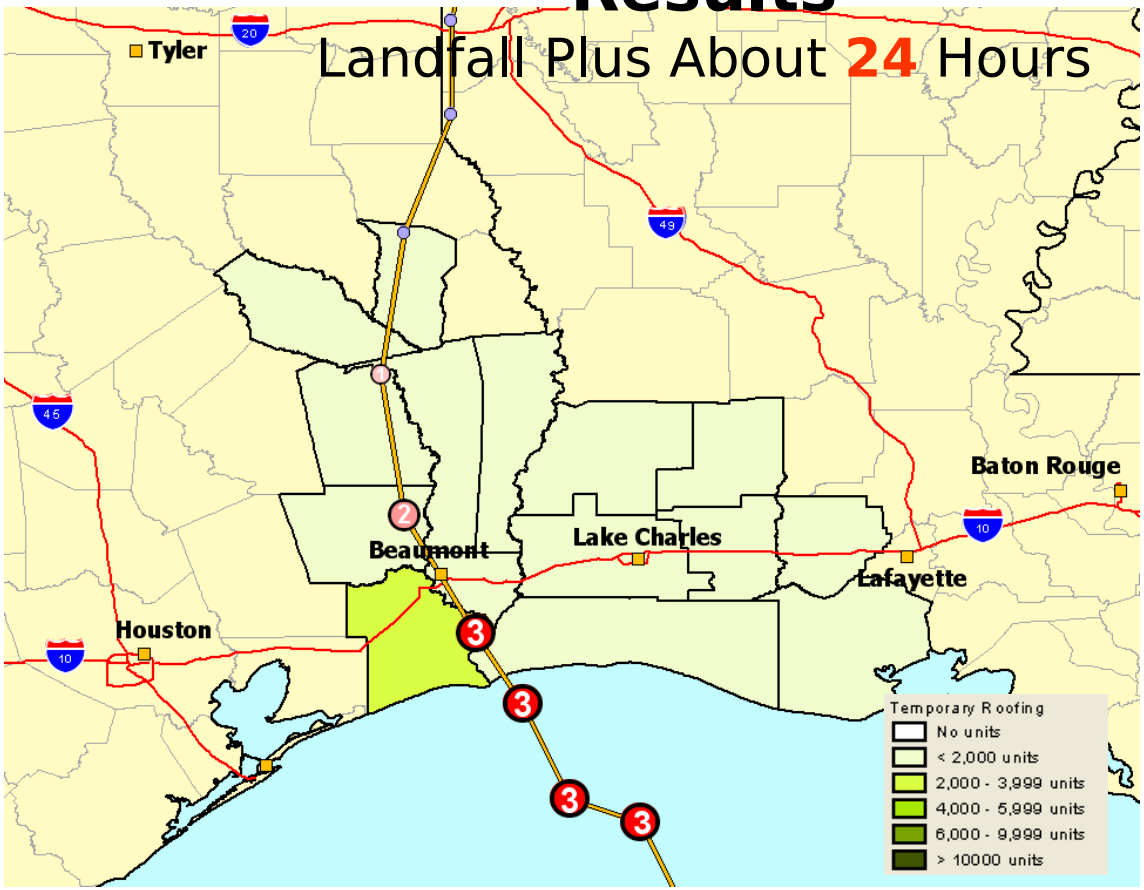
**Hurricane Rita Households Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Temporary Roofing Model Results

**For Official Use Only!**




***Most Probable Temporary Roofing Model Results***

Texas – 4,800
Louisiana – 2,400

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Roofing Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Temporary Roofing Model Results

**For Official Use Only!**

| State | County/Parish | House Units Per County/Parish |
|---|---|---|
| | | |
| Louisiana | Acadia | 100 |
| | Allen | 100 |
| | Beauregard | 100 |
| | Calcasieu | 1,800 |
| | Cameron | 100 |
| | Jeff'n Davis | 100 |
| | Vermilion | 100 |
| Louisiana | | 2,400 |
| | | |
| Texas | Angelina | 100 |
| | Hardin | 300 |
| | Jasper | 100 |
| | Jefferson | 3,000 |
| | Newton | 100 |
| | Orange | 1,000 |
| | San Augustine | 100 |
| | Tyler | 100 |
| Texas | | 4,800 |
| | | |
| TOTAL | | 7,200 |

**THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!**

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

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US Army Corps of Engineers

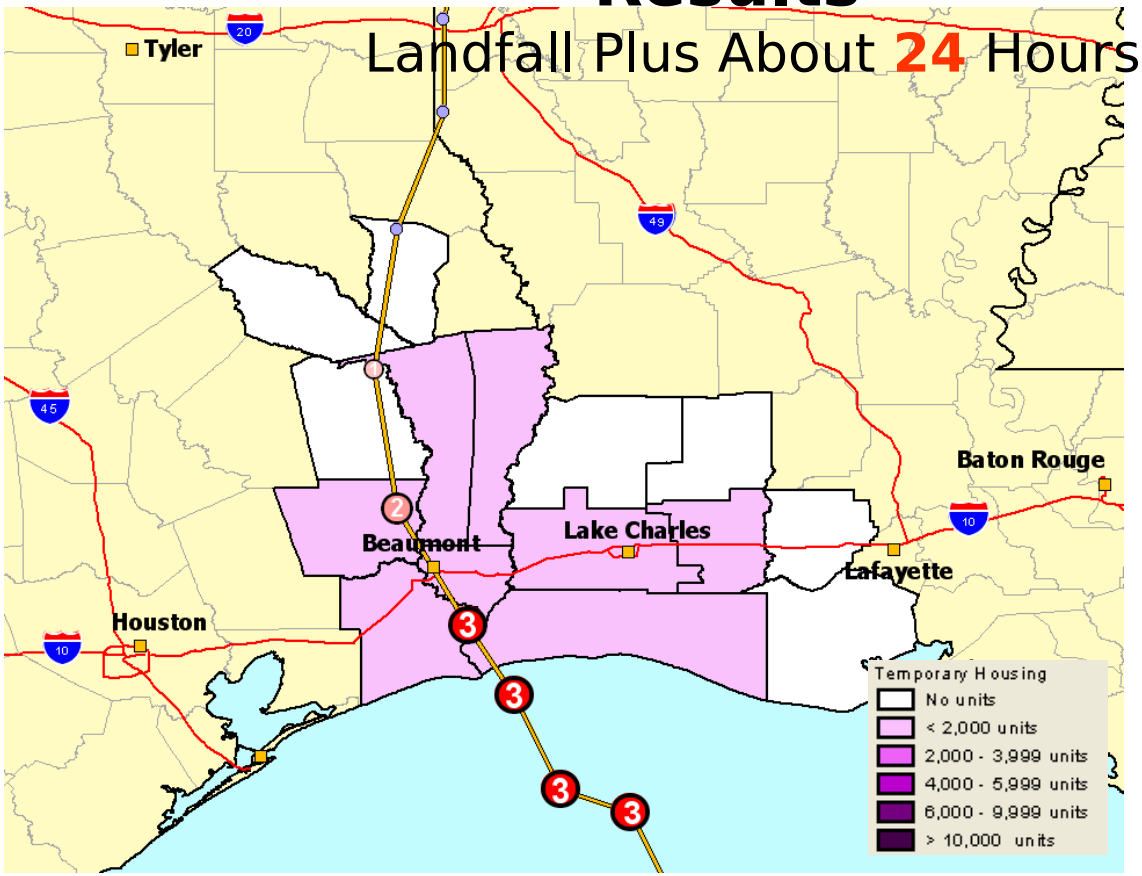
**Hurricane Rita Roofing Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Temporary Housing Model Results

**For Official Use Only!**




***Most Probable Temporary Housing Model Results***

Texas – 3,100
Louisiana – 1,500

*Model results per county on following page*

This model is based on a Category 3 storm making landfall east of Port Arthur, TX.

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(0500 EDT 09/25/2005)*** forecast. The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% housing need required in CAT 2 wind areas, and 4% housing need required in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

**Hurricane Rita Housing Model**

**Generated By:**
Paul Deatrick, LRL 0700 EDT 09/25/2005

**Sources:**
HURREVAC
LRL-DEBRIS

# Hurricane Rita Temporary Housing Model Results

**For Official Use Only!**

| State | County/Parish | House Units Per County/Parish |
|---|---|---|
| | | |
| Louisiana | Acadia | 100 |
| | Allen | 100 |
| | Beauregard | 100 |
| | Calcasieu | 900 |
| | Cameron | 100 |
| | Jeff'n Davis | 100 |
| | Vermilion | 100 |
| Louisiana | | 1,500 |
| | | |
| Texas | Angelina | 100 |
| | Hardin | 100 |
| | Jasper | 100 |
| | Jefferson | 1,900 |
| | Newton | 100 |
| | Orange | 600 |
| | San Augustine | 100 |
| | Tyler | 100 |
| Texas | | 3,100 |
| | | |
| TOTAL | | 4,600 |

**THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!**

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% housing need required in CAT2 wind areas, and 4% housing need in CAT 3 wind areas.

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US Army Corps of Engineers

**Hurricane Rita Housing Model**

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**Sources:**
HURREVAC
LRL-DEBRIS